

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	("4319232").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/23 13:32
L16	2	("20030128125").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/23 14:35
S1	2	("20030128125").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/09 13:03
S2	2	("6585675").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/09 13:13
S3	764	blood with leak with detect\$4	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:31
S4	0	S3 and (combine with fuzzy with logic)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:32
S5	0	S3 and (combine near two near signal)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:33
S6	400	S3 and (processor OR controller)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:33
S7	153	S6 and algorithm	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:34
S8	22	S7 and (leak near alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:34
S9	18	S3 and (fuzzy with logic)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:39
S10	234	S3 and (algorithm or formula)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:44
S11	192	S10 and (\$4processor or \$4controller OR computer)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:44
S12	0	S11 and ((leak or loss) with detect\$4) NEAR (algorithm or formula)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:46

S13	0	S11 and ((leak or loss) with detect\$4) with (algorithm or formula)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:47
S14	4799	extracorporeal with blood with (system or circuit)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:50
S15	5	S14 and ((enhance or optimize) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:51
S16	0	S14 and ((algorithm) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:56
S17	0	S14 and ((formula) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:56
S18	0	S14 and ((program) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:56
S19	30	S14 and ((method) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:56
S20	7021	extracorporeal with (system or circuit)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:59
S21	5	S20 and ((enhance or optimize) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 14:59
S22	0	S20 and ((algorithm) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:00
S23	0	S14 and ((algorithm) with (leak with detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:00
S24	0	S20 and ((program) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:00
S25	31	S20 and ((method) with (leak near detect\$4))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:00
S26	10	leak NEAR detect\$4 NEAR infus\$4	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:06
S27	122	leak with detect\$4 with infus\$4	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:08
S28	520	("600"/\$ ccls.) AND (leak with detect\$4)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:16

S29	1	S28 and (combine with two with signal)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:17
S30	10	S28 AND (air near line)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/09 15:18
S31	3	("3900396").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/09 15:30
S32	2	("6461329").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/09 15:34
S33	42	("3399971"   "4122838"   "4239495"   "4350155"   "4378808"   "4619653"   "4699615"   "4717378"   "4731051"   "4784645"   "4787398"   "5153827"   "5399445"   "5468621"   "5557263"   "5790036"   "6057689").PN. OR ("6461329").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2011/03/09 15:35
S34	65	("3756234"   "4086924"   "4498983"   "4657529"   "4696670"   "4936980"   "4995268"   "5098373"   "5114580"   "5178603"   "5188588"   "5312550"   "5392653"   "5454374"   "5536237"   "5662806"   "5685989"   "5690831"   "5707086"   "5725776"   "5744027"   "5808181"   "5894011"   "5906589"   "5910252"   "5947911"   "6090048"   "6177049"   "6251284"   "6308737"). PN. OR ("6585675"). URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2011/03/18 13:14
S35	5539	(blood or fluid) with leak with detect\$4	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:16
S36	616	S35 and (two with signals)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:16
S37	233	S36 and algorithm	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:16
S38	56	S37 and extracorporeal	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:17

S39	882	fluid NEAR leak NEAR (detect\$4 OR alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:25
S40	0	S39 and (two NEAR signals NEAR alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:25
S41	12	S39 and (two NEAR signals)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:25
S42	384	S39 and (air and (liquid or fluid))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:30
S43	6	S39 and (air and ((liquid or fluid) NEAR outside))	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:30
S44	24832	(bubble or air) NEAR (alarm or detect\$4)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:32
S45	959	S44 and extracorporeal	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:32
S46	104	S45 and (fluid NEAR leak)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:32
S47	148	fluid NEAR leak near (sensor or detector)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:34
S48	9	extracorporeal NEAR circuit NEAR alarm	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:44
S49	97	extracorporeal with circuit with alarm	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 13:45
S50	23	("4444597"   "4449392"   "4526574"   "4695385"   "4834888"   "5580460"   "5591344"   "5624551"   "5674390").PN. OR ("6044691").URIPN.	US-PGPUB; USPAT; USOCR	AND	ON	2011/03/18 13:59
S51	0	(extracorporeal near device) WITH (air NEAR detection)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:08
S52	58	(extracorporeal near system) and (air NEAR detection)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:09
S53	396	(air near sensor) and (fluid near sensor)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:12

S54	188	S53 and blood	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:12
S55	272	algorithm with leak with detect\$4	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:14
S56	56	S55 and (air with fluid)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:15
S57	66	alarm WITH apheresis	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:16
S58	3718	alarm WITH algorithm	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:18
S59	234	S58 AND (fuzzy near logic)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:18
S60	17	S58 AND (network near classifier)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 14:25
S61	0	alarm NEAR wxtracorporeal	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:03
S62	12	alarm NEAR extracorporeal	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:03
S63	22	alarm NEAR blood near leak	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:04
S64	0	apheresis near blood near leak	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:07
S65	1072	("340"/\$.ccls.) AND (leak NEAR detect\$4)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:08
S66	716	S65 and alarm	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:08
S67	57	S66 and patient	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:08
S68	3844	("73"/\$.ccls.) AND (leak NEAR detect\$4)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:15
S69	134	S68 and patient	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:15

S70	134	("73"/\$.ccls.) AND (leak NEAR alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:23
S71	8	S70 and patient	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:23
S72	594	("340"/\$.ccls.) AND (leak with alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:24
S73	8	S71 and patient	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:24
S74	39	S72 and patient	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/18 15:24
S75	929	Burbank.in.	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 08:50
S76	151	S75 and Jeffrey.in.	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 08:50
S77	79	S76 and alarm	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 08:51
S78	50	("604"/\$.ccls.) AND (leak NEAR alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:01
S79	239	("604"/\$.ccls.) AND (leak with alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:02
S80	115	S79 and (air with alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:03
S81	59	S80 and (fluid with alarm)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:03
S83	6945	("73"/\$.ccls.) AND (detect \$4 with leak\$4)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:11
S85	468	("604"/\$.ccls.) AND (detect WITH leak\$4)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:12
S86	107	S83 and (detect\$4 WITH fluid WITH loss)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:12
S87	24	S86 and (detect\$4 with air)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:12

S88	13	S85 and (detect\$4 WITH fluid WITH loss)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:14
S89	2	("5141490").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/19 09:49
S90	344	("210"/\$.ccls.) AND (detect WITH leak\$4)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:56
S91	824	("210"/\$.ccls.) AND (detect\$4 WITH leak\$4)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:56
S92	315	S91 and extracorporeal	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:56
S93	7	S92 and (combine WITH signals)	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 09:56
S94	125	extracorporeal WITH leak \$4 with detect\$4	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 10:08
S95	2	("6609036").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/19 10:30
S96	0	network WITH classifier WITH extracorporeal	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 10:32
S97	0	network WITH classifier WITH extracorporeal	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 10:32
S98	22	network WITH classifier WITH blood	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 10:32
S99	6	network WITH classifier WITH alarm	US-PGPUB; USPAT; EPO; DERWENT	AND	ON	2011/03/19 10:34
S100	18	("20020198483"   "20030009131"   "3618602"   "3631437"   "3864676"   "4010749"   "4083777"   "4666434"   "4804054"   "4846807"   "4877034"   "5383893"   "5779657"   "6254586"   "6461329").PN. OR ("6979306").URPN.	US-PGPUB; USPAT; USOCR	AND	ON	2011/03/19 10:40
S101	29	integrity WITH blood WITH circuit	US-PGPUB; USPAT; USOCR	AND	ON	2011/03/19 11:12

S102	2	("6609036").PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2011/03/23 12:11
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